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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/885,819	06/20/2001	Akihiko Matsuoka	MAT-8154US	4372
7590	12/16/2004		EXAMINER	
RATNER AND PRESTIA Suite 301, One Westlakes, Berwyn P.O. Box 980 Valley Forge, PA 19482-0980			DEANE JR, WILLIAM J	
			ART UNIT	PAPER NUMBER
			2642	
			DATE MAILED: 12/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/885,819	MATSUOKA, AKIHIKO
Examiner	Art Unit	
William J Deane	2642	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 20 June 2001.

2a)  This action is **FINAL**.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-28 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1-28 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 1.

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .  
5)  Notice of Informal Patent Application (PTO-152)  
6)  Other: \_\_\_\_ .

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 – 28 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S.

Patent Application No. 2001/0030581 (Dent).

With respect to claims 1 –28, note that Dent teaches the device as claimed by applicant by. Note that pre-distortion is well known in the art, paragraph 40. This would be the non-linear distortion compensator as claimed in the instant claim. In addition, note first quadrature modulator 302, second quadrature 304, main power amplifier 312, non-linear distortion extractor, note VCC in Fig 1, or VCO and/or 802 Fig. 8, auxiliary power amplifier 314 and modulation signal synthesizer 320. See also paragraphs 68, 154, 159 – 161, 171 – 172, and 185 – 186.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

U.S. Patent No. 6,751,447 (Jin et al.) – note Figs.;

U.S. Patent No. 6,567,478 (Oishi et al.) – note Figs.;

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U.S. Patent No. 6,512,417 (Booth et al.) – note Figs.;

U.S. Patent No. 6,366,177 (McCune et al.) – note Figs.; and

U.S. Patent No. 5,909,642 (Suzuki) – note Figs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bill Deane whose telephone number is (703) 306-5838.

In addition, facsimile transmissions should be directed to Bill Deane at facsimile number (703) 872-9306.

11Dec04



WILLIAM J. DEANE, JR.  
PRIMARY EXAMINER